Datasheet for ABIN3122488

serine (Or Cysteine) Peptidase Inhibitor, Clade A, Member 3G (Serpina3g) (AA 1-440) protein (Strep Tag)

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Overview

Quantity:	1 mg
Target:	serine (Or Cysteine) Peptidase Inhibitor, Clade A, Member 3G (Serpina3g)
Protein Characteristics:	AA 1-440
Origin:	Mouse
Source:	Tobacco (Nicotiana tabacum)
Protein Type:	Recombinant
Purification tag / Conjugate:	Strep Tag
Application:	ELISA, SDS-PAGE (SDS), Western Blotting (WB)

Product Details

Sequence:	MAGVSPAVFG CPDVTLGRNT AVREVQENVT SVDSLTLVSS NTDFAFSLYR KLVLKNPDEN VVFSPFSICT ALALLSLGAK SNTLKEILEG LKFNLTETPE PDIHQGFRYL LDLLSQPGNQ VQISTGSALF IEKHLQILAE FKEKARALYQ AEAFTADFQQ PLKATKLIND YVSNHTQGKI KELISGLKES TLMVLVNYIY FKGKWKNPFD PNDTFKSEFY LDEKRSVIVS MMKTGYLTTP YFRDEELSCT VVELKYTGNA SAMFILPDQG RMQQVEASLQ PETLRKWKNS LKPRMIHELR LPKFSISTDY SLEHILPELG IREVFSTQAD LSAITGTKDL RVSQVVHKAV LDVAETGTEA AAATGMAGVG CCAVFDFLEI FFNRPFLMII SDTKAHIALF MAKVTNPERS MNFPNGEGAS SQRLESKRLC FGDPLCLIGQ **Sequence without tag. The proposed Strep-Tag is based on experience s with the expression system, a different complexity of the protein could make another tag necessary. In case you have a special request, please contact us.**
Characteristics:	Key Benefits:

Product Details

- Made in Germany - from design to production - by highly experienced protein experts.
- Protein expressed with ALiCE® and purified in one-step affinity chromatography
- These proteins are normally active (enzymatically functional) as our customers have reported (not tested by us and not guaranteed).
- State-of-the-art algorithm used for plasmid design (Gene synthesis).

This protein is a **made-to-order protein** and will be made for the first time for your order. Our experts in the lab try to ensure that you receive soluble protein.

The big advantage of ordering our **made-to-order proteins** in comparison to ordering custom made proteins from other companies is that there is no financial obligation in case the protein cannot be expressed or purified.

Expression System:

- ALiCE®, our Almost Living Cell-Free Expression System is based on a lysate obtained from Nicotiana tabacum c.v.. This contains all the protein expression machinery needed to produce even the most difficult-to-express proteins, including those that require post-translational modifications.
- During lysate production, the cell wall and other cellular components that are not required for protein production are removed, leaving only the protein production machinery and the mitochondria to drive the reaction. During our lysate completion steps, the additional components needed for protein production (amino acids, cofactors, etc.) are added to produce something that functions like a cell, but without the constraints of a living system - all that's needed is the DNA that codes for the desired protein!

Concentration:

- The concentration of our recombinant proteins is measured using the absorbance at 280nm.
- The protein's absorbance will be measured against its specific reference buffer.
- We use the Expasy's ProtParam tool to determine the absorption coefficient of each protein.

Purification:	One-step Strep-tag purification of proteins expressed in Almost Living Cell-Free Expression System (AliCE®).
Purity:	> 80 % as determined by SDS PAGE, Western Blot and analytical SEC (HPLC).

Target Details

Target:	serine (Or Cysteine) Peptidase Inhibitor, Clade A, Member 3G (Serpina3g)
Alternative Name:	Serpina3g (Serpina3g Products)

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Target Details

Background:	Serine protease inhibitor A3G (Serpin A3G) (Serine protease inhibitor 2A) (Serpin 2A),FUNCTION: Serine and cysteine protease inhibitor. Can inhibit lysosomal papain-like proteases including the cathepsins B, G, H, K, L and V. Ineffective against elastase, granzyme A, granzyme B, or caspases 3, 8 or 9. Inhibition of cytoplasmic cathepsin B following release from the lysosome may protect cells from apoptosis. This may facilitate the survival of progenitor T-cells and the subsequent development of long term memory CD8 T-cells. {ECO:0000269|PubMed:14517268, ECO:0000269|PubMed:15225607, ECO:0000269|PubMed:15311278}.
Molecular Weight:	49.0 kDa
UniProt:	Q5I2A0

Application Details

Application Notes:	In addition to the applications listed above we expect the protein to work for functional studies as well. As the protein has not been tested for functional studies yet we cannot offer a guarantee though.
Comment:	ALiCE®, our Almost Living Cell-Free Expression System is based on a lysate obtained from Nicotiana tabacum c.v.. This contains all the protein expression machinery needed to produce even the most difficult-to-express proteins, including those that require post-translational modifications. During lysate production, the cell wall and other cellular components that are not required for protein production are removed, leaving only the protein production machinery and the mitochondria to drive the reaction. During our lysate completion steps, the additional components needed for protein production (amino acids, cofactors, etc.) are added to produce something that functions like a cell, but without the constraints of a living system - all that's needed is the DNA that codes for the desired protein!
Restrictions:	For Research Use only

Handling

Format:	Liquid
Buffer:	The buffer composition is at the discretion of the manufacturer. If you have a special request, please contact us.
Handling Advice:	Avoid repeated freeze-thaw cycles.

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Handling

Storage:	-80 °C
Storage Comment:	Store at -80°C.
Expiry Date:	Unlimited (if stored properly)

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